Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F-Aggregate/2507/2021--22	Date	10-11-2021

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Date of Testing	09-11-2021
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	12.6	1.26	1.26	98.74	90 – 100	*90 – 100*	90 – 100	90-100
2.36	30.4	3.04	4.30	95.70	60 – 95	*75 – 100*	85 – 100	95-100
1.18	220.4	22.04	26.34	73.66	30 – 70	*55 – 90*	75 – 100	90-100
0.6	271.4	27.14	53.48	46.52	15 – 34	*35 – 59*	60 – 79	80-100
0.3	286.4	28.64	82.12	17.88	5 – 20	*8 – 30*	12 – 40	15-50
0.15	129.4	12.94	95.06	4.94	0 – 10	*0 – 10*	0 – 10	0-15

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

.....End of Report.....

Note
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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F-Aggregate/2508/2021-22	Date	10-11-2021

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Date of Testing	09-11-2021
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	8.64	0.86	0.86	99.14	90 – 100	*90 – 100*	90 – 100	90-100
2.36	56.8	5.68	6.54	93.46	60 – 95	*75 – 100*	85 – 100	95-100
1.18	210.4	21.04	27.58	72.42	30 – 70	*55 – 90*	75 – 100	90-100
0.6	256.2	25.62	53.20	46.80	15 – 34	*35 – 59*	60 – 79	80-100
0.3	223.4	22.34	75.54	24.46	5 – 20	*8 – 30*	12 – 40	15-50
0.15	149.6	14.96	90.50	9.50	0 – 10	*0 – 10*	0 – 10	0-15

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

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*Approved by
Narayanswamy.B

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DSC Validity Up to: 25.06.2022

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/2505/2021-22	Date	13-11-2021

TEST REPORT ON COARSE AGGRERGATE

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Date of Testing	11-11-2021
Technical Referance	IS: 2386 (Part I)– 1963 IS: 383 – 2016

GRADATION OF COARSE AGGEGATES

20mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 20mm.
20	201.6	4.03	4.03	95.97	85-100	90 to 100	
10	3364.2	67.28	71.32	28.68	0 to 20	25 to 55	
4.75	1224.2	24.48	95.80	4.20	0 to 5	0 to 10	

40mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0.00	0.00	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	149.6	2.99	2.99	97.01	85-100	90 to 100	
20	2253.6	45.07	48.06	51.94	0 to 20	30 to 70	
10	1862.4	37.25	85.31	14.69	0 to 5	10 to 25	
4.75	520.2	10.40	95.72	4.28	-	0 to 5	

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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DSC Validity Up to

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/2501/2021-22	Date	14-11-2021

TEST REPORT ON CEMENT

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Date of Testing	13-11-2021
Technical Referance	IS: 4031(Part I–VI) 1988 (Reaffirmed–2000) & IS: 8112-1989

Sl. No.	Test Conducted	Results	IS: 8112-1989 Stipulation	Remarks
1	Normal consistency in %	29.6	Not specified	-
2	Initial setting time in minutes	186.6	Shall not be less than 30 minutes	P
3	Final setting time in minutes	308.4	Shall not be more than 600 minutes	P
4	Compressive strength (Average of three results) in N/mm2			
a	72+1h (3 days)	25.22	Shall not be less than 23.0 MPa	P
b	168+2h (7 days)	25.41	Shall not be less than 33.0 MPa	P
c	672+4h (28 days)	46.28	Shall not be less than 43.0 MPa	P

** As furnished by the client*

P : Passes IS requirement F: Fails IS requirements

TTC : Test to be conducted

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/2509/2021-22	Date	26-11-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Date of Sample Received	25-11-2021
Source of Sample	Casted and collected From site
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	RCC Drain	18-11-2021	25-11-2021	7 Days	22500.00	8196	279.6	12.43
2		18-11-2021	25-11-2021		22500.00	8215	278.2	12.36
3		18-11-2021	25-11-2021		22500.00	8144	274.2	12.19

1N/Sq.mm=10kg/Sq.cm(Approx)

* As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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DSC Validity Up

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/2510/2021-22	Date	30-11-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Date of Sample Received	29-11-2021
Source of Sample	Casted and collected From site
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	RCC Culvert	22-11-2021	29-11-2021	7 Days	22500.00	8088	265.2	11.79
2		22-11-2021	29-11-2021		22500.00	8078	271.4	12.06
3		22-11-2021	29-11-2021		22500.00	8068	269.8	11.99

1N/Sq mm=10kg/Sq.cm(Approx)

* As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/2513/2021-22	Date	04-01-2022

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Date of Sample Received	03-01-2022
Source of Sample	Casted and collected From site
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	RCC Culvert	06-12-2021	03-01-2022	28 Days	22500.00	8152	612.4	27.22
2		06-12-2021	03-01-2022		22500.00	8142	615.2	27.34
3		06-12-2021	03-01-2022		22500.00	8132	620.4	27.57

N/Sq.mm=10kg/Sq.cm(Approx)

* As furnished by the client

ote; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

or Karnataka Material Test House Pvt Ltd.,

epared & Checked by
garaj K S

Approved by
Narayanswamy.B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCslabs/2521/2021-22		
	TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES	Date	06-01-2022
Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.		
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.		
hird Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094		
ame of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division		
ork Order No	BBMP/EE/YNK.D/W.O/186/2019-20		
b Code No	003-20-000069		
te of Sample Received	06-01-2022		
urce of Sample	Collected From Site		
mber of Specimens*	3 No`s Cement Concrete Slabs		
e & Shape of Sample	slab Length -1500mm, Height-250mm,Width460mm		

ompressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

lo	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
nm Slab														
	S-01	95.00	189.98	2.00	7085	140.2	19.79	1.00	19.79	24.74	24.6	1.8460	0.00135	1371.54
	S-02	95.00	190.00	2.00	7085	139.8	19.73	1.00	19.73	24.67		1.7860	0.00135	1326.82
	S-03	95.00	189.88	2.00	7085	138.4	19.54	1.00	19.53	24.42		1.8640	0.00135	1385.64

rnished by the Client

A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

arnataka Material Test House Pvt Ltd.,

ed & Checked by
aj K S

Approved by
Narayanswamy.B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCKerbs/2525/2021-22	Date	10-01-2022

TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Date of Sample Received	10-01-2022
Source of Sample	Collected From Site
Number of Specimens*	3 No`s Cement Concrete Kerbs
Size & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
Date of Testing	

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq mm	Load KN	Comp. Strength. N/Sq.mm	C.F.H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq.mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	95.00	190.00	2.00	7085	135.6	19.14	1.00	19.14	23.93	24	2.6840	0.00135	1993.94
2	S-02	95.00	190.00	2.00	7085	134.5	18.98	1.00	18.98	23.73		2.6920	0.00135	1999.88
3	S-03	95.00	190.00	2.00	7085	135.6	19.14	1.00	19.14	23.93		2.7120	0.00135	2014.74

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

Karnataka Material Test House Pvt. Ltd. Bangalore

.....End of Report.....

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/2530/2021-22	Date	03-01-2021

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Source of Sample	Collected From Site
Date of Testing	03-01-2021
Technical Referance	MORTH Specifications

GSB MATERIAL ***15000***

IS Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	1238	8.25	8.25	91.75	80-100	100	100	100	80-100	100
25	2642	17.61	25.86	74.14	55-90	70-100	55-75	50-80	55-90	75-100
10	2001	13.34	39.2	60.80	35-65	50-80	-	-	35-65	55-75
4.75	986.4	6.58	45.78	54.22	25-55	40-65	10--30	15--35	25-50	30-55
2.36	2245	14.97	60.75	39.25	20-40	30-50	-	-	10--20	10--25
0.425	3652.4	24.35	85.1	14.9	10--15	10--15	-	-	0-5	0-8
0.075	1872.6	12.48	97.58	2.42	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.69	Should not be more than 2%
2	Maximum Dry Density	2.03	-
3	Optimum Moisture Content	5.42	-
4	Plasticity Index	NP	Shall not more than 6

* As furnished by the client

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt. Ltd.,

Prepared & Checked by

Approved by
Narayanswamy B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/GSB/2532/2021-22	Date	06-01-2022

TEST REPORT ON GRANULAR SUB BASE MATERIAL (GSB)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Source of Sample	Collected From Site
Date of Testing	06-01-2022
Technical Referance	MORTH Specifications

GSB MATERIAL

Weight of Sample taken *15000*

I S Sieve in mm	Wt retained (gms)	% Retained	Cumulative %	% Passing	G-I	G-II	G-III	G-IV	G-V	G-VI
75	0	0	0	100	100	-	-	-	100	-
53	1986.2	13.24	13.24	86.76	80-100	100	100	100	80-100	100
25	2021.2	13.47	26.71	73.29	55-90	70-100	55-75	50-80	55-90	75-100
10	2564	17.09	43.8	56.20	35-65	50-80	-	-	35-65	55-75
4.75	2642.5	17.62	61.42	38.58	25-55	40-65	10--30	15--35	25-50	30-55
2.36	2522.3	16.82	78.24	21.76	20-40	30-50	-	-	10--20	10--25
0.425	1624.2	10.83	89.07	10.93	10--15	10--15	-	-	0-5	0-8
0.075	1198.2	7.99	97.06	2.94	<5	<5	<5	<5	-	0-3

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.81	Should not be more than 2%
2	Maximum Dry Density	2.06	-
3	Optimium Moisture Content	5.02	-
4	Plasticity Index	NP	Shall not more than 6

* *As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/2534/2021-22	Date	10-01-2022

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Source of Sample	Collected From Site
Date of Testing	10-01-2022
Technical Referance	MORTH Specifications

WMM MATERIAL ***10000***

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	302.2	302.2	3.02	96.98	95-100
22.4	2964.2	3266.4	32.66	67.34	60-80
11.2	2998.6	6265	62.65	37.35	40-60
4.75	1752.4	8017.4	80.17	19.83	25-40
2.36	992.4	9009.8	90.10	9.90	15-30
0.6	152.4	9162.2	91.62	8.38	8--22
0.75	426.8	9589	95.89	4.11	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.86%	Should not be more than 2%
2	Flakiness & Elongation Index	28.6%	Shall not be more than 40%
3	Aggregate Crushing Value	21.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
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Approved by
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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No+A1:K2A1:K	KMTH/DGBM/2540/2021-22	Date	15-01-2022

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
Job Code No	003-20-000069
Source of Sample	Tested and collected from site
Date of Testing	15-01-2022
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	Weight of sample taken	1000	gm		GRADE-II
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	61.8	61.8	6.18	93.82	90-100
19	235.2	297	29.70	70.30	71-95
13.2	165.4	462.4	46.24	53.76	56-80
4.75	120.4	582.8	58.28	41.72	38-54
2.36	119.6	702.4	70.24	29.76	28-42
0.3	145.2	847.6	84.76	15.24	7--21
0.075	112.2	959.8	95.98	4.02	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	521.2	490.2	31.00	5.95
2	519.4	489.6	29.80	5.74
3	516.4	489.4	27.00	5.23
4	518.2	488.6	29.60	5.71

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

eport No	KMTH/DGBM/2543/2021-22	Date	17-01-2022

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

ame of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
lame of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
hird Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
lame of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
Work Order No	BBMP/EE/YNK.D/W.O/186/2019-20
ob Code No	003-20-000069
Source of Sample	Tested and collected from site
Date of Testing	17-01-2022
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	*gm*		*GRADE-II*
I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	66.4	66.4	6.64	93.36	90-100
19	199.6	266	26.60	73.40	71-95
13.2	152.4	418.4	41.84	58.16	56-80
4.75	109.4	527.8	52.78	47.22	38-54
2.36	152.2	680	68.00	32.00	28-42
0.3	196.4	876.4	87.64	12.36	7--21
0.075	97.2	973.6	97.36	2.64	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	511.2	482.6	28.60	5.59
2	512.2	485.4	26.80	5.23
3	513.4	486.2	27.20	5.30
4	515.4	485.2	30.20	5.86

* *As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

ort No	KMTH/BC/2536/2021-22	Date	18-01-2022

TEST REPORT ON BITUMIOUS CONCRETE

me of Client & Address	Executive Engineer Bruhat Bengaluru Mahanagara Palike Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
me of Agency & Address	Technical Manager Karnataka Rural Infrastructure Development Limited, Grameenabhirvudi Bhavan, 4th and 5th Floor, Ananda Rao circle, Bangalore - 560009.
ird Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
me of Project & Address	Construction of RCC Drains and Culverts at Anugraha layout, Muniswamappa layout and Sai Nagar-2 And Surrounding area in ward No. 03, Yelahanka Satellite Town sub Division
ork Order No	BBMP/EE/YNK.D/W.O/186/2019-20
b Code No	003-20-000069
urce of Sample	Tested and collected from site
te of Testing	18-01-2022
chnical Referance	MORTH SPECIFICATIONS

C MATERIAL	*Weight of sample taken*	*1000*	*gm*		*GRADE-II*
S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	41.8	41.8	4.18	95.82	90-100
9.5	233.4	275.2	27.52	72.48	70-88
4.75	143.6	418.8	41.88	58.12	53-71
2.36	99.8	518.6	51.86	48.14	42-58
1.18	73.4	592	59.20	40.80	34-48
0.6	82.4	674.4	67.44	32.56	26-38
0.3	79.6	754	75.40	24.60	18-28
0.15	87.4	841.4	84.14	15.86	12--20
0.075	99.2	940.6	94.06	5.94	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	520.2	486.4	33.80	6.50
2	517.4	482.6	34.80	6.73
3	516.2	484.2	32.00	6.20
4	511.8	482.2	29.60	5.78

* *As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
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